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a tipping moment severity monitoring system generating tipping moment data regarding at least one mechanical device in a production facility and communicating said data to said computation means;

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the computation means ~~determining~~ which device applications create the worst vibration severity, worst tipping moment severity, and calculating the relative risk of each application.

3. (New) The system of Claim 2 in which said devices are mechanical presses.

4. (New) The system of Claim 2 in which said applications are die sets for utilization with said devices.

5. (New) The system of Claim 2 utilized on at least two devices, said computation means calculating which of said at least two application should operate on which of said at least two devices.

6. (New) The system of Claim 5 in which said devices are mechanical presses.

7. (New) The system of Claim 5 in which said applications are die sets for utilization with said devices.

8. (New) The system of Claim 2 in which said computation means calculates the possible increase in device speed without a decrease in device lifetime or increase in relative risk.

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